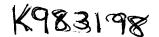
NOV 23 1999



Section 10:

510(k) Summary

This section satisfies the 510(k) summary as required by 21 CFR 807-92 ©.

Submitter

Miss Jan L Walters
Diametrics Medical Limited
Short Street
High Wycombe
Bucks HP11 2QH UK

Tei: Fax: +44 1494 471671

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Date of Summary: August 1998

Device Name

Proprietary

TrendCare Calibrator

Common

Calibrator

Device Classification

Panel

Anaesthesiology Devices Panel

Classification

Accessory to a Class III device, indwelling pCO2 partial pressure

sensor

FDA CFR

868-1150

Description

Calibrator

Classification No.

75 JIS 73 CCC

Statement of Substantial Equivalence

Diametrics Medical Ltd claims substantial equivalence to products which have received FDA clearance by the Premarket Notification process.

The TrendCare Calibrator is a duplication of the calibration function within the TrendCare Senior Monitor to provide a standalone calibration facility.

Device Description

The TrendCare Calibrator is a microprocessor-based device powered from the mains (line) supply. The device incorporates:

- A LCD display for user prompts.
- A series of LEDs for system status indication.
- Keys for selecting and initiating calibration.
- Calibration chamber.
- Connections to calibration gas cylinders.
- Location fixtures for the multiparameter sensors.

The calibration chamber is located on the front of the Calibrator unit, and is opened by pressing the latch to release the door.

The sensor is calibrated by connecting it to the PDM patient cable, placing the tonometer in the calibration chamber, closing the door and securing the introducer, and pressing the START CAL key.

A three point calibration of the sensor is performed by bubbling three precision mixtures of oxygen, carbon dioxide and nitrogen in sequence through the tonometer solution surrounding the sensor. These gases change the partial pressure of oxygen and carbon dioxide and the pH in the tonometer to defined values.

The calibration gases are contained in cylinders located at the base of the Calibrator. The cylinders are identical to the predicate device. Each cylinder contains a different precision mixture of gases. These gases are automatically passed in sequence through the tonometer when the calibration sequence is initiated.

Each of the cylinders contains sufficient gas for multiple calibrations. The cylinders are disposable, and should be discarded when empty (see the instructions on the cylinder labels).

Intended Use

The TrendCare Calibrator is an accessory for use with the TrendCare Monitors. Sensors and Patient Data Modules calibrated with the TrendCare Calibrator may be used with the TrendCare Satellite Monitor (TCM6000) or TrendCare Senior Monitor (TCM7000).

Technological Characteristics

- Mains powered
- Microprocessor controlled
- Digital display

Conclusion

The data presented above satisfies product accuracy claims and shows comparable results for both the TrendCare Calibrator and the TrendCare Senior Monitor.

The device under review is considered substantially equivalent.



NOV 23 1999

Food and Drug Administration 9200 Corporate Boulevard Bockville MD 20850

Miss Jan L. Walters Diametrics Medical Ltd. Short Street High Wycombe Bucks HP11 2QH United Kingdom

Re: K983198

TrendCare Calibrator

Regulatory Class: III (three)

Product Code: 73 CCC Dated: September 11, 1998 Received: September 11, 1998

Dear Miss Walters:

We have reviewed your Section 510(k) notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 895. A substantially equivalent determination assumes compliance with the Current Good Manufacturing Practice requirements, as set forth in the Quality System Regulation (QS) for Medical Devices: General regulation (21 CFR Part 820) and that, through periodic QS inspections, the Food and Drug Administration (FDA) will verify such assumptions. Failure to comply with the GMP regulation may result in regulatory action. In addition, FDA may publish further announcements concerning your device in the Federal Register. Please note: response to your premarket notification submission does not affect any obligation you might have under sections 531 through 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or regulations.

This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4648. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers Assistance at its toll-free number (800) 638-2041 or (301) 443-6597, or at its internet address "http://www.fda.gov/cdrh/dsma/dsmamain.html".

Sincerely yours,

Thomas J. Callahan, Ph.D.

Director

Division of Cardiovascular,

Respiratory, and Neurological Devices

Office of Device Evaluation Center for Devices and

Radiological Health

Enclosure

Page_l_of_1

Device Name: IRENDCARE CAMBRATOR

Indications For Use:

The TrendCare Calibrator is an acressory for use with the Trend Core Monitors. Sensors and Patient Data Modules calibrated with the Trend Care Calibrater Satelyte May be used with the Trend Care Maiter (TCM 6000) ar TrendCore Seriar Mainter (Tem 7000)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Division of Cardiovascular, Respiratory,

and Neurological Devices

Prescription Use 510(k) Number

OR. _ Over-The-Counter Use

(Per 21 CFR 801,109)

(Optional Format 1-2-96)...